

UI.java

```
import java.util.Scanner;

public class UI {
    private AdminService adminService;
    private Scanner scanner = new Scanner(System.in);

    public UI(AdminService adminService) {
        this.adminService = adminService;
    }

    public void start() {
        System.out.println("Welcome to SmartStudent!");
        System.out.print("Enter username: ");
        String username = scanner.nextLine();
        System.out.print("Enter password: ");
        String password = scanner.nextLine();
        if (adminService.login(username, password)) {
            System.out.println("Login successful!");
            showMenu();
        } else {
            System.out.println("Invalid credentials!");
        }
    }

    private void showMenu() {
        while (true) {
            System.out.println("1. Add Student");
            System.out.println("2. View Students");
            System.out.println("3. Exit");
            System.out.print("Choose an option: ");
            int choice = scanner.nextInt();
            scanner.nextLine(); // consume newline
            if (choice == 1) {
                adminService.addStudent();
            } else if (choice == 2) {
                adminService.viewStudents();
            } else {
                break;
            }
        }
    }
}
```